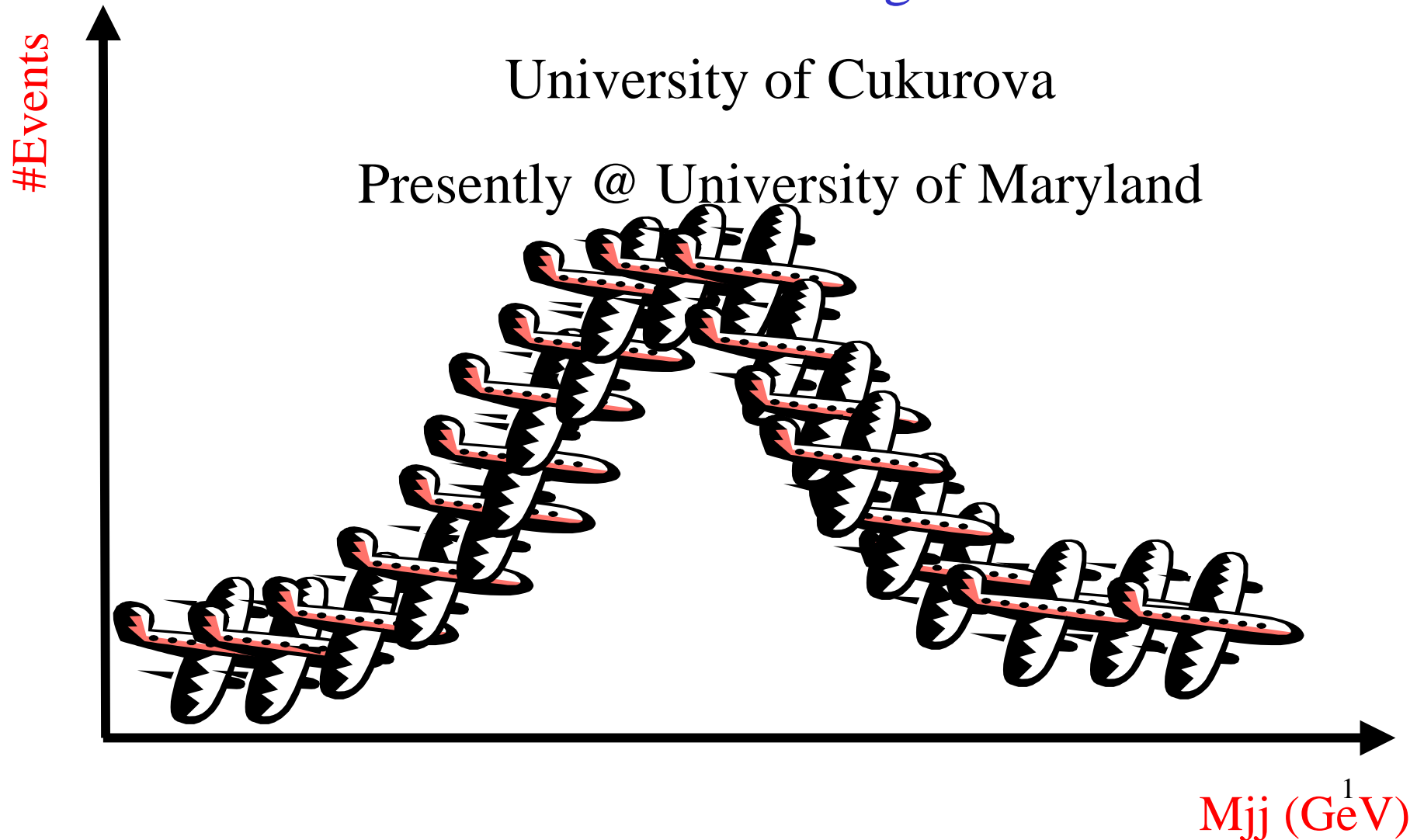


DIJET RESONANCES (SMALL UPDATE)

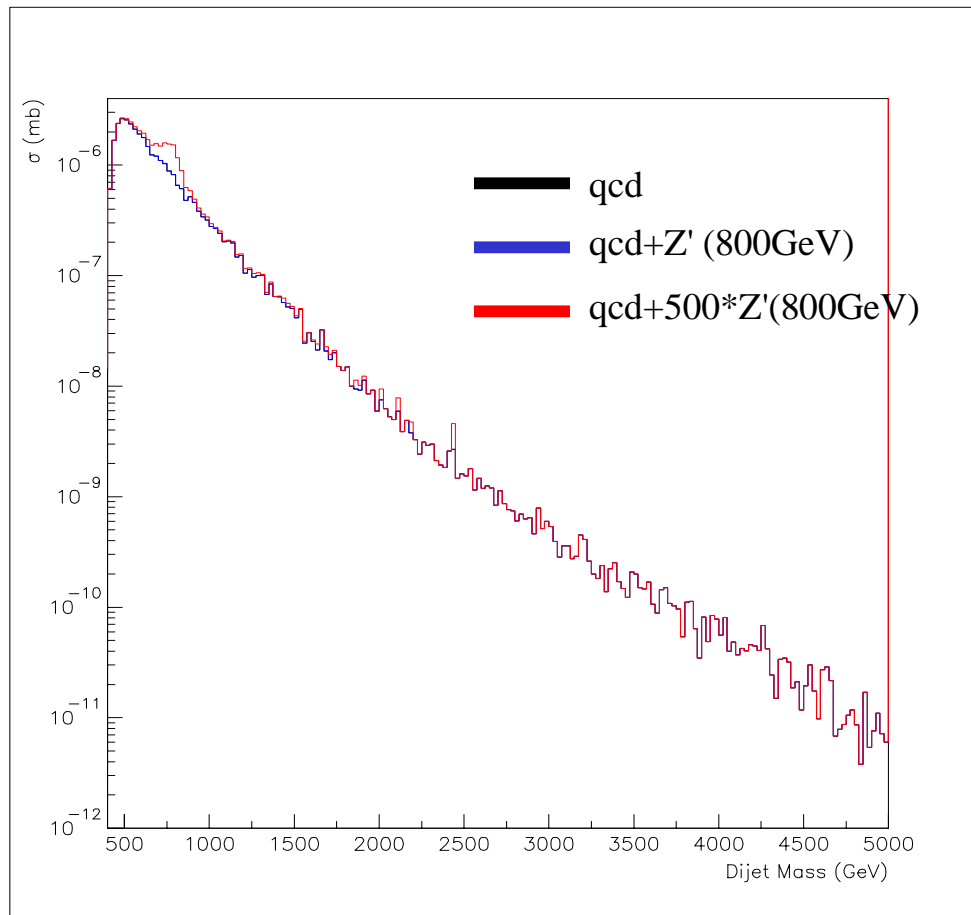
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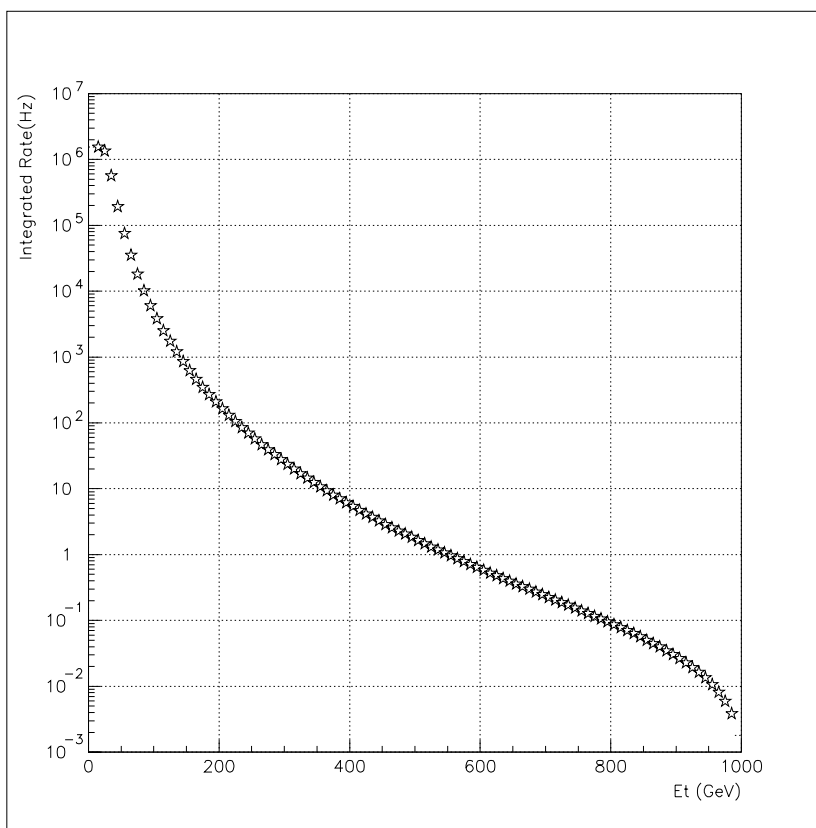


Z' (800 GeV) + qcd spectra



- It is impossible to see any peak in qcd+ Z' cross section without any scaling.
- We need a scaling factor of 500 around 700 GeV, 250 around 1200 GeV and 125 around 2000 GeV to be able to see any peak.

Rate



- This is not result. I would like to take your comments.
- I applied 20 GeV jet E_t and 2 GeV seed E_t cut.
- I am using my ntuples generated with cmsim 125.
- At generator level by smearing the E_t . I smeared using $E_T = E_T + r E_T^{1/2}$. Where r is gaussian generated random number.
- There is big differences at low E_t when I compare with previous results. But difference is much less above 100 GeV.

CONCLUSIONS&FUTURE PLANS

- Recalculate the rates with and without my cuts.
- We plan to run again for different particles (W' , diquarks, etc.).
- We should investigate how NLO will effect this results.
- Check the result for full ORCA.